

REMARKS

This is intended as a full and complete response to the Office Action dated November 28, 2007 (hereinafter "the Office Action") having a shortened statutory period for response set to expire on February 28, 2007.

Claims 1-20 are pending in the present Office Action. Claims 16 and 18-20 are allowed, Claims 1-3, 5, 7, 9-11, 13-15 and 17 are rejected, Claims 4, 6, 8 and 12 are objected to.

CLAIM REJECTIONS

35 U.S.C. § 112

Claim 17 stands rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Specifically, Examiner states that dependent Claim 17 contradicts a limitation of independent Claim 16. Claim 17 has been amended to more particularly point out and distinctly claim the subject matter and, as amended, is allowable.

The modified pulse of Claim 16 has zero-crossings at bit edges within the bit period. As shown in Fig. 5A, the sequence of bit periods can encompass multiple bits, each delineated by bit edges. Claim 16 describes the modified pulse wherein the zero crossings of the pulse are "substantially at bit edges within the sequence of bit periods." This includes zero crossings at the bit edges adjacent to the bit period within which the pulse is substantially located. The modified pulse of Claim 16 can also include zero crossings at other bit edges in the sequence of bit periods.

The modified pulse of Claim 17, which depends from and further limits Claim 16, has zero-crossings at bit edges in the bit period, that "are not those bit edges immediately adjacent to the bit period in which the pulse is substantially located.". The modified pulse of dependent Claim 17 is a specific embodiment of the modified pulses of independent Claim 16 from, which it depends. Claim 17 does not contradict Claim 16 but adds further limitations to its elements. Applicants respectfully assert that

Claim 17, as amended, is an allowable dependent claim from Claim 16 that fully complies with the requirements of 35 U.S.C. § 112.

35 U.S.C. § 103

Claims 1, 2, 7, 9, 11 and 13 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent 6,956,917 to Lenosky in view of U.S. Patent 6,246,731 to Brianti et al. Applicants respectfully disagree with the rejection. However, in order to expedite the ultimate allowance of the present application, Applicants have amended independent Claim 1 to incorporate the limitations of allowable dependent Claim 4. As amended, Claim 1 is allowable. Furthermore, Claims 2, 7 and 9, which depend from and further limit Claim 1, are also allowable, their respective rejections having become moot.

Regarding Claims 11 and 13, Applicants have incorporated the allowable limitations of dependent Claim 12 into amended Claim 11. As amended, Claim 11 is allowable. Claim 13 depends from and further limits Claim 11. Because Claim 11 is allowable, the rejection of Claim 13 is moot and should be withdrawn.

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent 6,956,917 to Lenosky in view of U.S. Patent 6,246,731 to Brianti et al as applied to Claim 1, and further in view of U.S. Patent 5,249,150 to Gruber.

Applicants respectfully disagree with the rejections. However, Claim 3 depends from allowable Claim 1 and Claim 14 depends from allowable Claim 11. Because their respective base claims are allowable, dependent Claims 3 and 14 are also allowable and the rejections should be withdrawn.

Claims 5 and 15 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent 6,956,917 to Lenosky in view of U.S. Patent 6,246,731 to Brianti et al as applied to Claim 1, and further in view of U.S. Patent 4,852,169 to Veeneman et al.

Applicants respectfully disagree with the rejections. However, Claim 5 depends from allowable Claim 1 and Claim 15 depends from allowable Claim 11. Because their respective base claims are allowable, dependent Claims 5 and 15 are also allowable and the rejections should be withdrawn.

Claim 10 is rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent 6,956,917 to Lenosky in view of U.S. Patent 6,246,731 to Brianti et al as applied to Claim 1, and further in view of U.S. Patent 3,876,941 to Kohlenberg et al.

Applicants respectfully disagree with the rejection. However, Claim 10 depends from allowable Claim 1. Because its base claim is allowable, dependent Claim 10 is also allowable and the rejection should be withdrawn.

ALLOWABLE SUBJECT MATTER

Claims 16 and 18-20 are allowed. Applicants thank the Examiner for this recognition of allowable subject matter.

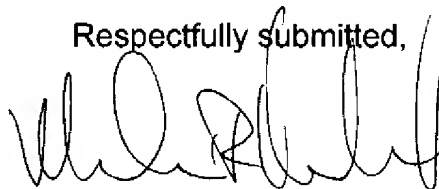
Claims 4, 6, 8 and 12 are objected to as being dependent from a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. However, Claim 4 has been cancelled and its allowable limitations have incorporated into Claim 1, making the objection to Claim 4 moot. Claims 6 and 8 depend from and further limit allowable Claim 1 and are thus allowable. Claim 12 has been cancelled and its allowable limitations have been incorporated into Claim 11, making the objection to Claim 12 moot. The objections to Claims 4, 6, 8 and 12 should, therefore, be withdrawn.

CONCLUSION

Claims 1, 11 and 17 have been amended. No new matter is introduced by entry of these amendments. Claims 4 and 12 have been cancelled. All remaining claims are in condition for allowance, and a Notice of Allowance is respectfully requested.

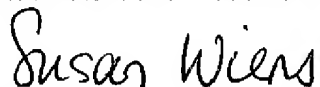
If there are any questions, the Applicant's attorney can be reached at Tel: 408-879-6149 (Pacific Standard Time).

Respectfully submitted,



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I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on February 22, 2008.



Susan Wiens